

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.ai RHIC Zone 2Z1 Sweep Checklist

Text Pages 2 through 3

C-A-OPM Procedures in which this Attachment is used.

4.56		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____ ***Signature on File*** _____
 Collider-Accelerator Department Chairman Date

P. Ingrassia, W. MacKay

RHIC Zone 2Z1 Sweep Checklist

Team leader (TL) _____ Sweeper#2 (S2) _____

Sweeper#3(S3) _____

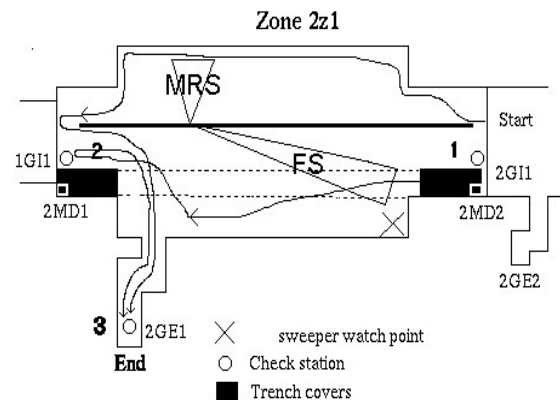
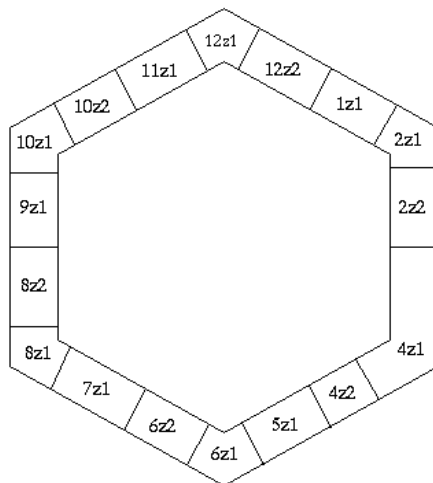
Time: _____ Date: _____

Warning:

IF any workers are encountered during the sweep, **THEN** contact the OC to see if the sweep should be aborted. Workers shall leave the enclosure **WITH** the sweep team. **IF** the workers crash out of the enclosure **AND** do not exit with the sweep team, **THEN** the sweep shall be re-started.

Prerequisites

- Three persons to perform the sweep,
- At least one sweeper not restricted from working at heights over five feet.
- RHIC Zone 2Z1 Sweep Checklist (two pages)
- Zones 1z1 and 2z2 should be searched and secured first
- Chains and **APPROVED** padlocks (two each) for 2MD1 and 2MD2 trench gates.
- Required Tools: at least one flashlight,
- Walkie-talkies
- All Doors closed THEN 2Z1 set to Controlled Access
- Keys: Sweep Reset key S/R015, Controlled Access key CA014, padlock key (RG184)



Note:

References to positions in the tunnel are made using the RHIC magnets. The identity of the local magnet can be determined by looking up at the "lower" cable tray and reading the magnet name on a blue (B) or yellow (Y) label. For example, the convention used is: I05Q17 (Inside, Q17) or O-05Q17 (Outside, Q17). References are for inside locations and are visible only by the Team Leader

CONTINUED ON REVERSE SIDE

Note:

Before beginning the sweep:

- Contact the experiment to tell them a sweep will be performed.
- Ask the experiment to turn off their magnet(s)
- IF magnet(s) cannot be turned off THEN carry no ferrous objects while sweeping near the magnet(s) and obey postings and fencing to stay away from fields greater than 500 gauss.

Check

- ___ 1 Sweep team enters zone 2Z1 from either gate 2GE1 or from 1GI1 after completing the 1Z1 sweep. TL will request a simultaneous release from MCR before entering 2GE1.

Note

2MD1, and 2MD2 (trench) Gates must be reset before the 2Z1 sweep may begin. IF both gates are padlocked, THEN the trench need not be padlocked or searched. **IF BOTH TRENCH GATES ARE PADLOCKED THEN START THE PROCEDURE AT STEP 6**

- ___ 2 TL closes, chains and padlocks the 2MD1 trench gate and resets the 2MD1 trench gate by turning the S/R015 key in the RESET keyswitch, on the 2MD1 panel, and verifies yellow RESET lamp is lighted.
- ___ 3 Sweep team goes to 2MD2.
- ___ 4 Sweeper trained to enter Class I confined space goes down the ladder, walks down the tunnel to the ladder at 2MD1, sweeps back to 2MD2 and climbs back up the ladder closes, chains, and padlocks the trench gate.
- ___ 5 TL resets the 2MD2 trench gate by turning the S/R015 key in the RESET keyswitch, on the 2MD2 panel, and verifies yellow RESET lamp is lighted.
- ___ 6 S2 crosses under the beam pipe and goes to the outer (far) 2GI1 gate. S3 goes to the SOUTHWEST corner of the enclosure next to electrical panel 2H (at the end of the Forward Spectrometer (FS)) and stands Static Watch
- ___ 7 TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP key-switch on 2XCS3 on the 2MD2 panel.
- ___ 8 TL observes AREA SECURED lamp blink once.
- ___ 9 Sweep team sweeps Counter Clockwise (CCW) around RHIC -- towards 1 o'clock.
- ___ 10 S2 stops to check the Exhaust Fan Vent Barrier at O-O2D0.
- ___ 11 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___ 12 TL stands static watch in the open area after the 2Dx magnet.
- ___ 13 S2 climbs ladder in the corner of the hall to check crane cab and platform at top of ladder.
- ___ 14 S2 climbs down ladder.
- ___ 15 S2 checks the upper and lower Exhaust Fan Vent Barrier next to 2DX magnet
- ___ 16 S2 climbs the yellow stairs at the Mid Rapidity Spectrometer (MRS) and stands static watch
- ___ 17 TL sweeps past Forward spectrometer and sweeps the area around D3 & D4
- ___ 18 Sweep team sweeps Counter Clockwise (CCW) around RHIC to the vapor barrier at 1GI1.
- ___ 19 TL sets second check station by turning the S/R015 key SWEEP key on 2MD1 (2CXS1).
- ___ 20 TL observes the yellow SWEEP lamp blinks once.
- ___ 21 S2 joins TL. TL calls S3 to join the team at 2GE1
- ___ 22 Sweep team sweeps down the labyrinth to 2GE1
- ___ 23 TL ENDS SWEEP at third check station (2XCS2) by turning S/R015 key in the SWEEP keyswitch on the 2GE1-I gate box.
- ___ 24 TL observes AREA SECURED lamp remains lighted.
- ___ 25 TL contacts MCR for simultaneous release for gate 2GE1.
- ___ 26 Sweep Team sweeps out 2z1 through 2GE1.

Note:

If the AREA SECURED lamp is not lit then contact MCR to confirm sweep is good and gate(s) are reset.

- ___ 27 After returning keys to keytree in MCR, TL resets the RCA gate 2GE1 on the RHIC PanelView.
- ___ 28 After returning to MCR and verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log binder.